

REMARKS

INTRODUCTION

In accordance with the foregoing, new claim 57 has been added. Claims 50-53 have been cancelled. Claims 54-57 is pending and under consideration.

CLAIM REJECTIONS

Claim 53 was rejected under 35 USC 102(a) as being anticipated by Kawase et al. (EP 1 063 797) (hereinafter "Kawase").

Claims 50-52 were rejected under 35 USC 103(a) as being unpatentable over Kawase in view of Grabb et al. (US 6,538,704) (hereinafter "Grabb").

Claims 54 and 55 were rejected under 35 USC 103(a) as being unpatentable over Kawase in view of Rainsford (US 7,158,676) (hereinafter "Rainsford").

Claim 56 was rejected under 35 USC 103(a) as being unpatentable over Kawase in view of Rainsford, and further in view of Chen (US 2002/0136538) (hereinafter "Chen").

Claims 50-53

Claims 50-53 have been cancelled.

Claims 54-56

Claim 54 recites: "...receiving a digital television signal and auxiliary information which is not included in the digital television signal..."

In Office Action, the Examiner contends that: "Rainsford teach[es] auxiliary information which is not included in the digital television signal (e.g. column 12, lines 8-19, PSI are sent separately from the transport stream)" as discussed on page 6, lines 11-13 of the Office Action.

However, it is respectfully submitted that Rainsford only discloses that Program Specific Information (PSI) labels are sent as separate packets within the transport stream 1001. for example, please refer to 12:10-12:12 of Rainsford. Rainsford also discloses that PSI is included in the transport stream with the other PES as shown in Figure 10 and relevant description in column 11 of Rainsford.

For the convenience of the Examiner, Figure 10 and the relevant portions of Rainsford are reproduced below.

Rainsford, Figure 10 and Columns 11 and 12

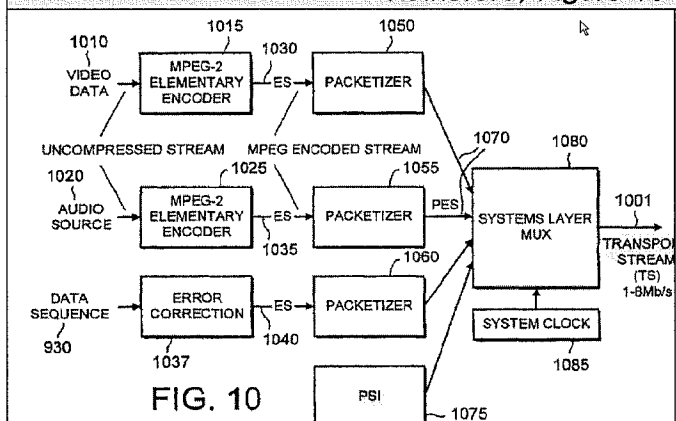


FIG. 10

Rainsford - Column 11

Referring to FIG. 10, the different elements that constitute the embedded video programme are combined into a single transport stream 1001 in preparation for broadcasting by a network operator. The programme consists of a video stream 1010, an audio stream 1020, both of which streams are uncompressed. Both the video data 1010 and the audio data 1020 are encoded and compressed in respective MPEG-2 elementary encoders 1015 and 1025 to produce elementary streams of data 1030, 1035 respectively. MPEG-2 compliant data sequence 930 is error checked 1037 to produce an elementary stream of data 1040. The elementary streams 1030, 1035 and 1040 are applied to packetisers 1050, 1055 and 1060, which each accumulate data into fixed size blocks to which is added a protocol header. The output from the packetisers is termed a packetised elementary stream (PES) 1070. The packetised elementary streams 1070, in combination with digital control data (PSI) 1075, is applied to a systems layer multiplexer 1080 having a systems clock 1085. The PES packet is a mechanism to convert continuous elementary streams of information 1030, 1035 and data sequence 930 into a stream of packets. Once embedded in PES packets the elementary streams may be synchronised with time stamps. This is necessary to enable the receiver (PC or TV) to determine the relationship between all the video, audio and data streams that constitute the embedded video programme.

Each PES packet is fed to the system multiplexer 1080. There the packets are encapsulated into transport packets to form the transport stream 1001 that is used for broadcast. In this respect, the transport stream 1001 carries packets in 188 byte blocks and the transport stream 1001 constitutes a full so-called eMUSE channel that is fed to the network operator for broadcast. In essence, the transport stream is a general purpose way of combining multiple streams using fixed length packets.

Rainsford - Column 12

In order for the receiver (PC or TV) to know how to decode the channel, it needs to access a set of signalling tables known as Programme Specific Information (PSI) labels which are sent as separate packets within the transport stream 1001 with their own PID tables. There are two tables that are needed to enable the receiver to decode a channel. The first is the programme association table (PAT) 113 which lists all the channels that are available within the satellite broadcast and has a packet ID (PID) value of 111 which makes it easy to identify. In the example, the eMUSE channel, i.e. the channel carrying the video programme, is represented as PID 111.

Thus, as shown above, it is respectfully submitted that Rainsford does not disclose or teach the feature of claim 54 of receiving a digital television signal and **auxiliary information which is not included in the digital television signal.**

The Office Action relies on Chen to show the feature of claim 54 of determining a compression ratio. However, Chen only discusses adjusting bit rate based on the type of video program and does not discuss estimating from the category item an amount of movement in the received digital television signal as recited in claim 54. Further, this feature is also not discussed in the other relied upon references. Still further, it is respectfully noted that this feature of claim 54 has been found to patentably distinguish over the previously relied upon references, including Chen and Kawase, as noted in the Office Action mailed on November 12, 2008.

Claims 55 and 56 depend on claim 54 and are therefore believed to be allowable for at least the foregoing reason.

Withdrawal of the foregoing rejections is requested.

NEW CLAIM

New claim 57 has been added to present an alternate recitation of the present invention. New claim 57 recites a method comprising: receiving a digital television signal and auxiliary information which is not included in the digital television signal; determining category information based on the received auxiliary information; and searching the digital television signal based on the determined category information, wherein the auxiliary information and digital television signal are respectively received by different channels.

It is respectfully noted that the above note features are not discussed in the relied upon prior art. No new matter has been added, and entry and consideration are respectfully requested.

CONCLUSION

Finally, if there are any formal matters remaining after this response, the Examiner is requested to telephone the undersigned to attend to these matters.

If there are any additional fees associated with filing of this Amendment, please charge the same to our Deposit Account No. 19-3935.

Respectfully submitted,

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